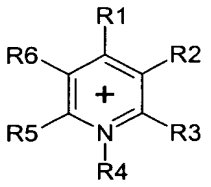
LISTING OF CLAIMS

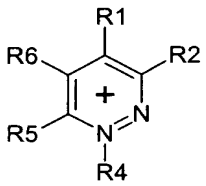
1. (**Previously Presented**) An ionic liquid of the general formula

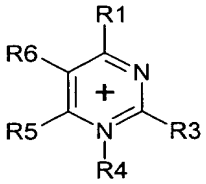
$$K^+A^- \qquad (I)$$

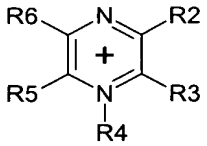
wherein:

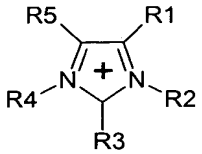
K^+ is a cation selected from:

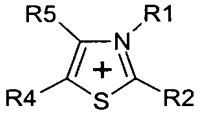


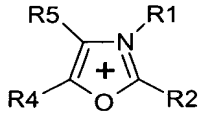


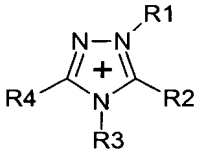












wherein

R^1 to R^6 are identical or different and are each individually

- H,
- a halogen,

- an alkyl radical (C_1 to C_8), which is unsubstituted, or which is partially or fully substituted by F, Cl, $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$ wherein $1<n<6$ and $0<x\leq13$

- a phenyl radical which is unsubstituted or which is partially or fully substituted by F, Cl, $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$ wherein $1<n<6$ and $0<x\leq13$, or

- one or more pairs of adjacent R^1 to R^6 can also be an alkylene or alkenylene radical and having up to 8 C atoms, wherein the radical is unsubstituted or partially or fully substituted by halogen, $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$ wherein $1<n<6$ and $0<x\leq13$

wherein A^- is an anion selected from

$[B(OR^7)_n(OR^8)_m(OR^9)_o(OR^{10})_p]^-$

wherein

$0\leq n, m, o, p\leq4$, and $m+n+o+p=4$, and

R^7 to R^{10} are different or identical and are each, individually:

an aromatic ring selected from a phenyl, anthracenyl and phenanthrenyl ring, which is unsubstituted, or which is monosubstituted or polysubstituted by $C_nF_{(2n+1-x)}H_x$, wherein $1<n<6$ and $0<x\leq13$, or halogen,

an aromatic heterocyclic ring selected from a pyridyl, pyrazyl and pyrimidyl ring, which is unsubstituted, or which is mono-substituted or polysubstituted by $C_nF_{(2n+1-x)}H_x$, wherein $1<n<6$ and $0<x\leq13$, or halogen,

or

an alkyl radical (C_1 to C_8), which is unsubstituted, or which is partially or fully substituted by F, Cl, $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$, or $C_nF_{(2n+1-x)}H_x$, wherein $1<n<6$ and $0<x\leq13$,

and wherein one or more pairs of R^7 to R^{10} can also form

an aromatic ring selected from a anthracenylene and phenanthrenylene ring, which is unsubstituted or an aromatic ring selected from a phenylene, naphthylene, anthracenylene and phenanthrenylene ring which is monosubstituted or polysubstituted by $C_nF_{(2n+1-x)}H_x$, wherein $1<n<6$ and $0<x\leq13$, or halogen,

an aromatic heterocyclic ring selected from a pyridylene, pyrazylene and pyrimidylene ring, which is unsubstituted, or which is mono-substituted or polysubstituted by $C_nF_{(2n+1-x)}H_x$, wherein $1<n<6$ and $0<x\leq13$, or halogen,

or

an alkylene or alkenylene radical having up to 8 C atoms and which is unsubstituted or which is partially or fully substituted by halogen, $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$ wherein $1<n<6$ and $0<x\leq13$

or OR^7 to OR^{10},individually or together,

are an aromatic having 6 to 14 C atoms and which is a dicarboxyl, oxysulfonyl or oxycarbonyl radical, which is unsubstituted, or which is partially or fully substituted by F, Cl, $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$, wherein $1<n<6$ and $0<x\leq13$

or

are aliphatic having 1 to 6 C atoms and which is a carboxyl, dicarboxyl, oxysulfonyl or oxycarbonyl radical, which is

unsubstituted, or which is partially or fully substituted by F, Cl, $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$, wherein $1<n<6$ and $0<x\leq13$.

2. (**original claim**) An ionic liquid according to claim 1, wherein at least one of R^1 to R^6 of the cation is an alkyl radical which is unsubstituted or partially or fully substituted by F, Cl, $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$ wherein $1<n<6$ and $0<x\leq13$.

3. (**original claim**) An ionic liquid according to claim 1, wherein at least one of R^1 to R^6 of the cation is a phenyl radical which is unsubstituted or partially or fully substituted by F, Cl, $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$ wherein $1<n<6$ and $0<x\leq13$.

4. (**original claim**) An ionic liquid according to claim 1, wherein at least a pair of R^1 to R^6 of the cation is an alkylene or alkenylene radical which is unsubstituted or partially or fully substituted by halogen, $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$ wherein $1<n<6$ and $0<x\leq13$.

5. (**original claim**) An ionic liquid according to claim 1, wherein at least one of R^7 to R^{10} of the anion is an alkyl radical which is unsubstituted or partially or fully substituted by F, Cl, $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$, or $C_nF_{(2n+1-x)}H_x$, wherein $1<n<6$ and $0<x\leq13$.

6. (**original claim**) An ionic liquid according to claim 1, wherein at least one pair of R^7 to R^{10} of the anion is an alkylene or alkenylene radical which is unsubstituted or partially or fully substituted by a halogen,

$N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$ wherein $1<n<6$ and $0<x\leq13$.

7. (**Previously Presented**) An ionic liquid according to claim 1, wherein at least one of R^7 to R^{10} of the anion is an aromatic ring selected from a phenyl, anthracenyl and phenanthrenyl ring, which is unsubstituted, or which is monosubstituted or polysubstituted by $C_nF_{(2n+1-x)}H_x$, wherein $1<n<6$ and $0<x\leq13$, or by a halogen.

8. (**Previously Presented**) An ionic liquid according to claim 1, wherein at least one of R^7 to R^{10} of the anion is an aromatic heterocyclic ring selected from a pyridyl, pyrazyl and pyrimidyl ring, which is unsubstituted, or which is monosubstituted or polysubstituted by $C_nF_{(2n+1-x)}H_x$, wherein $1<n<6$ and $0<x\leq13$, or ~~(~~F, Cl or Br~~)~~.

9. (**Previously Presented**) An ionic liquid according to claim 1, wherein at least one pair of R^7 to R^{10} of the anion is an aromatic ring selected from an anthracenylene and phenanthrenylene ring, which is unsubstituted or a phenylene, naphthylene, anthracenylene and phenanthrenylene ring, which is monosubstituted or polysubstituted by $C_nF_{(2n+1-x)}H_x$, wherein $1<n<6$ and $0<x\leq13$, or halogen.

10. (**original claim**) An ionic liquid according to claim 1, wherein at least one pair of R^7 to R^{10} of the anion is an aromatic heterocyclic ring selected from a pyridylene, pyrazylene and pyrimidylene ring, which is unsubstituted, or which is mono-substituted or polysubstituted by $C_nF_{(2n+1-x)}H_x$, wherein $1<n<6$ and $0<x\leq13$, or by halogen.

11. (**withdrawn**) An electrochemical cell comprising a cathode, an anode, a separator, and the ionic liquid of claim 1.

12. (**withdrawn**) A supercapacitor comprised of at least a pair of electrodes, a separator, and the ionic liquid of claim 1.

13. (**withdrawn**) An electrolyte composition comprising an ionic liquid of claim 1 and an aprotic solvent.

14. (**withdrawn**) An electrolyte composition comprising an ionic liquid of claim 1 and a conductive salt.

15. (**original claim**) A method for making an ionic liquid according to claim 1, comprising reacting a chloride salt of the formula K^+Cl^- with a lithium salt of the formula Li^+A^- within an aprotic solvent.

16. **(Previously presented)** An ionic liquid according to claim 1, selected from :

1-ethyl-3-methylimidazolium bis [1,2-benzenediolato-O,O'] borate,

1-ethyl-3-methylimidazolium bis[oxalato]borate, and

1-ethyl-3-methylimidazolium bis[salicylato]borate.

17. (**Previously Presented**) A compound according to claim 16, wherein said compound is:

1-ethyl-3-methylimidazolium bis [1,2-benzenediolato-O,O'] borate.

18. **(Previously presented)** A compound according to claim 1, wherein A^- is

bis[oxalato]borate.

19. **(Previously presented)** A compound according to claim 1, wherein A^- is

bis[salicylato]borate.

20. **(Previously presented)** A compound according to claim 16, wherein said compound is:

1-ethyl-3-methylimidazolium bis[oxalato]borate.

21. **(Previously presented)** A compound according to claim 1, wherein OR^7 to OR^{10}, individually or together,

are aliphatic having 1 to 6 C atoms and which is a carboxyl, dicarboxyl, oxysulfonyl or oxycarbonyl radical, which is unsubstituted, or which is partially or fully substituted by F, Cl, $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$, wherein $1<n<6$ and $0<x\leq13$.

22. (**New**) A compound according to claim 1, wherein A^- is

bis [1,2-benzenediolato-O,O'] borate.